

Amendment to the Claims:

The claims under examination in this application, including their current status and changes made in this paper, are respectfully presented.

1 (previously presented). A method of color matching images generated by multiple projectors of a tiled projection display system, comprising the steps of:

providing at least two projectors, each having chromaticity data representing a color gamut of that projector stored therein;

communicating each projector's chromaticity data to a main controller;

determining a standard color gamut achievable by each said projector;

calculating color correction data for each projector, based on that projector's chromaticity data and on said standard color gamut; and

calculating image pixel values based on input image data and said color correction data.

2 (previously presented). The method of Claim 1, said providing step comprising providing luminance data.

3 (previously presented). The method of Claim 1, wherein:

said providing step comprising providing luminance data representing the relative luminance of colors generated by each projector; and

said calculating step is performed such that the color correction data is further based on the luminance data.

4 (previously presented). The method of Claim 3, wherein said storing luminance data represents effective light times of each color of a color wheel used by said projector.

5 (previously presented). The method of Claim 1, further comprising the step of storing additional data representing the luminance of a light source of each projector,  
and further comprising the step of adjusting the gain of the color correction data based on the additional data.

6 (previously presented). The method of Claim 1, comprising communicating each projector's chromaticity data in the form of a transfer function matrix.

7 (previously presented). The method of Claim 1, comprising calculating said chromaticity data from primary and white color values.

8 (previously presented). The method of Claim 1, said determining and calculating color correction data steps performed by at least one component selected from the group consisting of:  
a processing system in data communication with each projector, and  
at least one projector functioning at least partially as the main controller.

9 (currently amended). The method of Claim 1, said determining and calculating color correction data steps are performed by one of said projectors.

10 (previously presented). The method of Claim 1, comprising generating images using a spatial light modulator.

11 (previously presented). The method of Claim 1, comprising calculating said color correction data from primary and secondary colors.

12 (previously presented). A display system comprising:  
at least two projectors, each said projector operable to generate a portion of an image; and  
chromaticity data stored in each projector; and  
wherein at least one of said at least two projectors is operable to deliver the chromaticity data to a main controller, to receive color correction data from said main controller, and to calculate pixel values based on said color correction data.

13 (previously presented). The display system of Claim 12, at least one of said two projectors comprising a digital micro mirror device.

14 (previously presented). The display system of Claim 12, wherein the chromaticity data represents both color and luminance of images generated by at least one of said at least two projectors.

15 (previously presented). The display system of Claim 12, wherein at least one projector of said at least two projectors further stores and delivers relative luminance data representing relative luminance of colors generated by said at least one of said projectors.

16 (previously presented). The display system of Claim 15, wherein the relative luminance data represents effective light times of said at least one projector of said at least two projectors.

17 (previously presented). The display system of Claim 12, wherein at least one projector of said at least two projectors comprises a light source and further stores and delivers luminance data representing luminance characteristics of the light source.

18 (previously presented). The display system of Claim 12, wherein the color correction data is derived from primary and secondary colors.

Claims 19 through 23 are canceled.